

RECREATIONAL INTERPRETATIONS
Griggs County, North Dakota

The soils of the survey area are rated in the following tables according to limitations that affect their suitability for recreation. The ratings are both verbal and numerical. Rating class terms indicate the extent to which the soils are limited by all of the soil features that affect the recreational uses. Not limited indicates that the soil has features that are very favorable for the specified use. Good performance and very low maintenance can be expected. Slightly limited indicates that the soil has features that are favorable for the specified use. The limitations are minor and can be easily overcome. Good performance and low maintenance can be expected. Somewhat limited indicates that the soil has features that are moderately favorable for the specified use. The limitations can be overcome or minimized by special planning, design, or installation. Fair performance and moderate maintenance can be expected. Very limited indicates that the soil has one or more features that are unfavorable for the specified use. The limitations generally cannot be overcome without major soil reclamation, special design, or expensive installation procedures. Poor performance and high maintenance can be expected.

Numerical ratings in the tables indicate the severity of individual limitations. The ratings are shown as decimal fractions ranging from 0.00 to 1.00. They indicate gradations between the point at which a soil feature has the greatest negative impact on the use (1.00) and the point at which the soil feature is not a limitation (0.00).

The ratings in the tables are based on restrictive soil features, such as wetness, slope, and texture of the surface layer. Susceptibility to flooding is considered. Not considered in the ratings, but important in evaluating a site, are the location and accessibility of the area, the size and shape of the area and its scenic quality, vegetation, access to water, potential water impoundment sites, and access to public sewer lines. The capacity of the soil to absorb septic tank effluent and the ability of the soil to support vegetation also are important. Soils that are subject to flooding are limited for recreational uses by the duration and intensity of flooding and the season when flooding occurs. In planning recreational facilities, onsite assessment of the height, duration, intensity, and frequency of flooding is essential.

The information in this table can be supplemented by other information in this survey, for example, interpretations for building site development, construction materials, sanitary facilities, and water management.

Camp areas require site preparation, such as shaping and leveling the tent and parking areas, stabilizing roads and intensively used areas, and installing sanitary facilities and utility lines. Camp areas are subject to heavy foot traffic and some vehicular traffic. The ratings are based on the soil properties that affect the ease of developing camp areas and the performance of the areas after development. Slope, stoniness, and depth to bedrock or a cemented pan are the main concerns affecting the development of camp areas.

The soil properties that affect the performance of the areas after development are those that influence trafficability and promote the growth of vegetation, especially in heavily used areas. For good trafficability, the surface of camp areas should absorb rainfall readily, remain firm under heavy foot traffic, and not be dusty when dry. The soil properties that influence trafficability are texture of the surface layer, depth to a water table, ponding, flooding, permeability, and large stones. The soil properties that affect the growth of plants are depth to bedrock or a cemented pan, permeability, and toxic substances in the soil.

Picnic areas are subject to heavy foot traffic. Most vehicular traffic is confined to access roads and parking areas. The ratings are based on the soil properties that affect the ease of developing picnic areas and that influence trafficability and the growth of vegetation after development. Slope and stoniness are the main concerns affecting the development of picnic areas. For good trafficability, the surface of picnic areas should absorb rainfall readily, remain firm under heavy foot traffic, and not be dusty when dry. The soil properties that influence trafficability are texture of the surface layer, depth to a water table, ponding, flooding, permeability, and large stones. The soil properties that affect the growth of plants are depth to bedrock or a cemented pan, permeability, and toxic substances in the soil.

Playgrounds require soils that are nearly level, are free of stones, and can withstand intensive foot traffic. The ratings are based on the soil properties that affect the ease of developing playgrounds and that influence trafficability and the growth of vegetation after development. Slope and stoniness are the main concerns affecting the development of playgrounds. For good trafficability, the surface of the playgrounds should absorb rainfall readily, remain firm under heavy foot traffic, and not be dusty when dry. The soil properties that influence trafficability are texture of the surface layer, depth to a water table, ponding, flooding, permeability, and large stones. The soil properties that affect the growth of plants are depth to bedrock or a cemented pan, permeability, and toxic substances in the soil.

Paths and trails for hiking and horseback riding should require little or no slope modification through cutting and filling. The ratings are based on the soil properties that affect trafficability and erodibility. These properties are stoniness, depth to a water table, ponding, flooding, slope, and texture of the surface layer.

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Golf fairways are subject to heavy foot traffic and some light vehicular traffic. Cutting or filling may be required. Irrigation is not considered in the ratings. The ratings are based on the soil properties that affect plant growth and trafficability after vegetation is established. The properties that affect plant growth are reaction; depth to a water table; ponding; depth to bedrock or a cemented pan; the available water capacity in the upper 40 inches; the content of salts, sodium, or calcium carbonate; and sulfidic materials. The properties that affect trafficability are flooding, depth to a water table, ponding, slope, stoniness, and the amount of sand, clay, or organic matter in the surface layer. The suitability of the soil for traps, tees, roughs, and greens is not considered in the ratings.

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RECREATION DEVELOPMENT--Continued
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(The information in this report indicates the dominant soil condition but does not eliminate the need for onsite investigation)

Map symbol and soil name	Camp areas	Picnic areas	Playgrounds	Paths and trails	Golf fairways
61: ARVESON-----	Severe: wetness	Severe: wetness	Severe: wetness	Severe: wetness	Severe: wetness
TIFFANY-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
ARVESON-----	Severe: excess salt wetness	Severe: excess salt wetness	Severe: excess salt wetness	Severe: wetness	Severe: excess salt wetness
WYNDMERE-----	Moderate: wetness	Moderate: wetness	Moderate: wetness	Moderate: wetness	Moderate: wetness droughty
HAMAR-----	Severe: wetness	Moderate: wetness	Severe: wetness	Moderate: wetness	Moderate: wetness droughty
MANFRED-----	Severe: excess sodium ponding	Severe: excess sodium ponding	Severe: excess sodium ponding	Severe: ponding	Severe: excess sodium ponding
ROSEWOOD-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
118: BARNES-----	Slight	Slight	Moderate: slope small stones	Slight	Slight
BUSE-----	Slight	Slight	Moderate: slope small stones	Slight	Slight
SVEA-----	Slight	Slight	Moderate: slope small stones	Slight	Slight
HAMERLY-----	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: wetness	Moderate: wetness
LANGHEI-----	Severe: slope	Severe: slope	Severe: slope	Moderate: slope	Severe: slope
PARNELL-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
TONKA-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
VALLERS-----	Severe: wetness	Moderate: percs slowly wetness	Severe: wetness	Moderate: wetness	Moderate: wetness
120: BUSE-----	Slight	Slight	Severe: slope	Slight	Slight
BARNES-----	Slight	Slight	Severe: slope	Slight	Slight
SVEA-----	Slight	Slight	Severe: slope	Slight	Slight

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(The information in this report indicates the dominant soil condition but does not eliminate the need for onsite investigation)

Map symbol and soil name	Camp areas	Picnic areas	Playgrounds	Paths and trails	Golf fairways
BRANTFORD-----	Slight	Slight	Severe: slope	Slight	Moderate: droughty
LANGHEI-----	Severe: slope	Severe: slope	Severe: slope	Moderate: slope	Severe: slope
HAMERLY-----	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: wetness	Moderate: wetness
PARNELL-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
TONKA-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
156: BARNES-----	Slight	Slight	Moderate: slope small stones	Slight	Slight
SVEA-----	Slight	Slight	Moderate: slope small stones	Slight	Slight
BUSE-----	Slight	Slight	Moderate: slope small stones	Slight	Slight
HAMERLY-----	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: wetness	Moderate: wetness
TONKA-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
PARNELL-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
WYARD-----	Severe: wetness	Moderate: wetness	Severe: wetness	Moderate: wetness	Moderate: wetness
167: BEARDEN-----	Moderate: wetness	Moderate: percs slowly wetness	Moderate: wetness	Moderate: wetness	Moderate: wetness
PERELLA-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
OVERLY-----	Slight	Slight	Slight	Slight	Slight
BEARDEN-----	Severe: excess salt	Severe: excess salt	Severe: excess salt	Moderate: wetness	Severe: excess salt
COLVIN-----	Severe: wetness	Severe: wetness	Severe: wetness	Severe: wetness	Severe: wetness
WYNDMERE-----	Moderate: wetness	Moderate: wetness	Moderate: wetness	Moderate: wetness	Moderate: wetness droughty
ENLOE-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding

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Map symbol and soil name	Camp areas	Picnic areas	Playgrounds	Paths and trails	Golf fairways
296: BRANTFORD-----	Slight	Slight	Moderate: small stones	Slight	Moderate: droughty
VANG-----	Slight	Slight	Slight	Slight	Slight
BINFORD-----	Slight	Slight	Moderate: slope	Slight	Moderate: droughty
COE-----	Slight	Slight	Moderate: slope	Slight	Severe: droughty
DIVIDE-----	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: wetness	Moderate: wetness
KENSAL-----	Slight	Slight	Slight	Slight	Slight
RENSHAW-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
314: BUSE-----	Moderate: slope	Moderate: slope	Severe: slope	Slight	Moderate: slope
BARNES-----	Moderate: slope	Moderate: slope	Severe: slope	Slight	Moderate: slope
SVEA-----	Moderate: slope	Moderate: slope	Severe: slope	Slight	Moderate: slope
HAMERLY-----	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: wetness	Moderate: wetness
COE-----	Severe: slope small stones	Severe: slope small stones	Severe: slope small stones	Moderate: slope	Severe: slope small stones droughty
LAMOURE-----	Severe: flooding	Slight	Moderate: flooding	Slight	Moderate: flooding
MADDOCK-----	Moderate: slope too sandy	Moderate: slope too sandy	Severe: slope	Moderate: too sandy	Moderate: slope droughty
TONKA-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
319: BUSE-----	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope
BARNES-----	Severe: slope	Severe: slope	Severe: slope	Moderate: slope	Severe: slope
SVEA-----	Severe: slope	Severe: slope	Severe: slope	Moderate: slope	Severe: slope
LANGHEI-----	Severe: slope	Severe: slope	Severe: slope	Moderate: slope	Severe: slope
LAMOURE-----	Severe: flooding	Slight	Moderate: flooding	Slight	Moderate: flooding

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Map symbol and soil name	Camp areas	Picnic areas	Playgrounds	Paths and trails	Golf fairways
VANG-----	Slight	Slight	Severe: slope	Slight	Slight
COE-----	Severe: slope small stones	Severe: slope small stones	Severe: slope small stones	Moderate: slope	Severe: slope small stones droughty
MADDOCK-----	Severe: slope	Severe: slope	Severe: slope	Moderate: slope too sandy	Severe: slope
391: CRESBARD-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
CAVOUR-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
SVEA-----	Slight	Slight	Moderate: small stones	Slight	Slight
FERNEY-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
HAMERLY-----	Severe: excess salt	Severe: excess salt	Severe: excess salt	Moderate: wetness	Severe: excess salt
HAMERLY-----	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: wetness	Moderate: wetness
EDGELEY-----	Slight	Slight	Slight	Slight	Moderate: depth to rock
TONKA-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
450: COLVIN-----	Severe: wetness	Severe: wetness	Severe: wetness	Severe: wetness	Severe: wetness
PERELLA-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
COLVIN-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
MARYSLAND-----	Severe: wetness	Severe: wetness	Severe: wetness	Severe: wetness	Severe: wetness
BEARDEN-----	Moderate: wetness	Moderate: percs slowly wetness	Moderate: wetness	Moderate: wetness	Moderate: wetness
FRAM-----	Moderate: wetness	Moderate: wetness	Moderate: wetness	Slight	Slight
WYNDMERE-----	Moderate: wetness	Moderate: wetness	Moderate: wetness	Moderate: wetness	Moderate: wetness droughty
511: DIVIDE-----	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: wetness	Moderate: wetness

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Map symbol and soil name	Camp areas	Picnic areas	Playgrounds	Paths and trails	Golf fairways
WYRENE-----	Moderate: wetness	Moderate: wetness	Moderate: small stones wetness	Moderate: wetness	Moderate: wetness droughty
MARYSLAND-----	Severe: wetness	Severe: wetness	Severe: wetness	Severe: wetness	Severe: wetness
HAMERLY-----	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: wetness	Moderate: wetness
WYARD-----	Severe: wetness	Moderate: wetness	Severe: wetness	Moderate: wetness	Moderate: wetness
FRAM-----	Moderate: wetness	Moderate: wetness	Moderate: wetness	Slight	Slight
HAMAR-----	Severe: wetness	Severe: wetness	Severe: wetness	Severe: wetness	Severe: wetness
536: ZELL-----	Slight	Slight	Severe: slope	Slight	Slight
ECKMAN-----	Slight	Slight	Severe: slope	Slight	Slight
GARDENA-----	Slight	Slight	Severe: slope	Slight	Slight
OVERLY-----	Slight	Slight	Severe: slope	Slight	Slight
COE-----	Severe: slope small stones	Severe: slope small stones	Severe: slope small stones	Moderate: slope	Severe: slope small stones droughty
BEARDEN-----	Moderate: wetness	Moderate: percs slowly wetness	Moderate: wetness	Moderate: wetness	Moderate: wetness
COLVIN-----	Severe: wetness	Severe: wetness	Severe: wetness	Severe: wetness	Severe: wetness
MADDOCK-----	Moderate: too sandy	Moderate: too sandy	Severe: slope	Moderate: too sandy	Moderate: droughty
539: EDGELEY-----	Slight	Slight	Slight	Slight	Moderate: depth to rock
WALSH-----	Slight	Slight	Moderate: small stones	Slight	Slight
BARNES-----	Slight	Slight	Moderate: small stones	Slight	Slight
CRESBARD-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
HAMERLY-----	Severe: excess salt	Severe: excess salt	Severe: excess salt	Moderate: wetness	Severe: excess salt

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Map symbol and soil name	Camp areas	Picnic areas	Playgrounds	Paths and trails	Golf fairways
KLOTEN-----	Severe: area reclaim thin layer	Severe: area reclaim thin layer	Severe: area reclaim slope thin layer	Slight	Severe: area reclaim thin layer
SVEA-----	Slight	Slight	Moderate: small stones	Slight	Slight
541: EDGELEY-----	Slight	Slight	Moderate: slope depth to rock	Slight	Moderate: depth to rock
KLOTEN-----	Severe: area reclaim thin layer	Severe: area reclaim thin layer	Severe: area reclaim slope thin layer	Slight	Severe: area reclaim thin layer
BRANTFORD-----	Slight	Slight	Moderate: small stones	Slight	Moderate: droughty
SVEA-----	Slight	Slight	Moderate: slope small stones	Slight	Slight
WALSH-----	Slight	Slight	Moderate: slope small stones	Slight	Slight
CRESBARD-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
VANG-----	Slight	Slight	Moderate: slope	Slight	Slight
569: EMBDEN-----	Slight	Slight	Slight	Slight	Slight
EMBDEN-----	Slight	Slight	Moderate: slope	Slight	Slight
MADDOCK-----	Moderate: too sandy	Moderate: too sandy	Moderate: too sandy	Moderate: too sandy	Moderate: droughty
EGELAND-----	Slight	Slight	Moderate: slope	Slight	Slight
TIFFANY-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
PERELLA-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
WYNDMERE-----	Moderate: wetness	Moderate: wetness	Moderate: wetness	Moderate: wetness	Moderate: wetness droughty
579: EMBDEN-----	Slight	Slight	Moderate: slope	Slight	Slight
EGELAND-----	Slight	Slight	Moderate: slope	Slight	Slight
DIVIDE-----	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: wetness	Moderate: wetness

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Map symbol and soil name	Camp areas	Picnic areas	Playgrounds	Paths and trails	Golf fairways
BINFORD-----	Slight	Slight	Moderate: slope	Slight	Moderate: droughty
ZELL-----	Slight	Slight	Moderate: slope	Slight	Slight
GLYNDON-----	Slight	Slight	Slight	Slight	Slight
TIFFANY-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
WYNDMERE-----	Moderate: wetness	Moderate: wetness	Moderate: wetness	Moderate: wetness	Moderate: wetness droughty
595: EMRICK-----	Slight	Slight	Slight	Slight	Slight
CATHAY-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
HEIMDAL-----	Slight	Slight	Slight	Slight	Slight
LARSON-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
TOWNER-----	Moderate: too sandy	Moderate: too sandy	Moderate: too sandy	Moderate: too sandy	Moderate: droughty
ESMOND-----	Slight	Slight	Moderate: slope	Slight	Slight
FRAM-----	Moderate: wetness	Moderate: wetness	Moderate: wetness	Slight	Slight
TONKA-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
597: EMRICK-----	Slight	Slight	Slight	Slight	Slight
HEIMDAL-----	Slight	Slight	Slight	Slight	Slight
FRAM-----	Moderate: wetness	Moderate: wetness	Moderate: wetness	Slight	Slight
WYARD-----	Severe: wetness	Moderate: wetness	Severe: wetness	Moderate: wetness	Moderate: wetness
ESMOND-----	Slight	Slight	Moderate: slope	Slight	Slight
LANONA-----	Slight	Slight	Slight	Slight	Slight
TIFFANY-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
TONKA-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
605: ESMOND-----	Moderate: slope	Moderate: slope	Severe: slope	Slight	Moderate: slope
HEIMDAL-----	Moderate: slope	Moderate: slope	Severe: slope	Slight	Moderate: slope

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(The information in this report indicates the dominant soil condition but does not eliminate the need for onsite investigation)

Map symbol and soil name	Camp areas	Picnic areas	Playgrounds	Paths and trails	Golf fairways
EMRICK-----	Slight	Slight	Severe: slope	Slight	Slight
BINFORD-----	Moderate: slope	Moderate: slope	Severe: slope	Slight	Moderate: slope droughty
COE-----	Severe: slope small stones	Severe: slope small stones	Severe: slope small stones	Moderate: slope	Severe: slope small stones droughty
MADDOCK-----	Moderate: slope too sandy	Moderate: slope too sandy	Severe: slope	Moderate: too sandy	Moderate: slope droughty
TONKA-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
WYARD-----	Severe: wetness	Moderate: wetness	Severe: wetness	Moderate: wetness	Moderate: wetness
753: FRAM-----	Moderate: wetness	Moderate: wetness	Moderate: wetness	Slight	Slight
WYARD-----	Severe: wetness	Moderate: wetness	Severe: wetness	Moderate: wetness	Moderate: wetness
TONKA-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
DIVIDE-----	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: wetness	Moderate: wetness
EMRICK-----	Slight	Slight	Slight	Slight	Slight
HEIMDAL-----	Slight	Slight	Slight	Slight	Slight
VALLERS-----	Severe: wetness	Moderate: percs slowly wetness	Severe: wetness	Moderate: wetness	Moderate: wetness
WYNDMERE-----	Severe: excess salt	Severe: excess salt	Severe: excess salt	Slight	Severe: excess salt
769: GARDENA-----	Slight	Slight	Slight	Slight	Slight
OVERLY-----	Slight	Slight	Slight	Slight	Slight
ECKMAN-----	Slight	Slight	Slight	Slight	Slight
GLYNDON-----	Slight	Slight	Slight	Slight	Slight
BEARDEN-----	Moderate: wetness	Moderate: percs slowly wetness	Moderate: wetness	Moderate: wetness	Moderate: wetness
LINDAAS-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
ZELL-----	Slight	Slight	Moderate: slope	Slight	Slight

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(The information in this report indicates the dominant soil condition but does not eliminate the need for onsite investigation)

Map symbol and soil name	Camp areas	Picnic areas	Playgrounds	Paths and trails	Golf fairways
773: GARDENA-----	Slight	Slight	Moderate: slope	Slight	Slight
ECKMAN-----	Slight	Slight	Moderate: slope	Slight	Slight
GREAT BEND-----	Slight	Slight	Moderate: slope	Slight	Slight
OVERLY-----	Slight	Slight	Slight	Slight	Slight
BEARDEN-----	Moderate: wetness	Moderate: percs slowly wetness	Moderate: wetness	Moderate: wetness	Moderate: wetness
ZELL-----	---	---	---	---	---
COLVIN-----	Severe: wetness	Severe: wetness	Severe: wetness	Severe: wetness	Severe: wetness
LANKIN-----	Slight	Slight	Slight	Slight	Slight
881: HAMERLY-----	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: wetness	Moderate: wetness
TONKA-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
WYARD-----	Severe: wetness	Moderate: wetness	Severe: wetness	Moderate: wetness	Moderate: wetness
VALLERS-----	Severe: wetness	Moderate: percs slowly wetness	Severe: wetness	Moderate: wetness	Moderate: wetness
PARNELL-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
CRESBARD-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
HAMERLY-----	Severe: excess salt	Severe: excess salt	Severe: excess salt	Moderate: wetness	Severe: excess salt
SVEA-----	Slight	Slight	Moderate: small stones	Slight	Slight
884: HAMERLY-----	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: wetness	Moderate: wetness
WYARD-----	Severe: wetness	Moderate: wetness	Severe: wetness	Moderate: wetness	Moderate: wetness
TONKA-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
VALLERS-----	Severe: wetness	Moderate: percs slowly wetness	Severe: wetness	Moderate: wetness	Moderate: wetness

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(The information in this report indicates the dominant soil condition but does not eliminate the need for onsite investigation)

Map symbol and soil name	Camp areas	Picnic areas	Playgrounds	Paths and trails	Golf fairways
DIVIDE-----	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: wetness	Moderate: wetness
BARNES-----	Slight	Slight	Moderate: small stones	Slight	Slight
FRAM-----	Moderate: wetness	Moderate: wetness	Moderate: wetness	Slight	Slight
HAMERLY-----	Severe: excess salt	Severe: excess salt	Severe: excess salt	Moderate: wetness	Severe: excess salt
893: HARRIET-----	Severe: flooding percs slowly wetness	Severe: excess sodium percs slowly wetness	Severe: percs slowly wetness	Severe: wetness	Severe: excess sodium wetness
MANFRED-----	Severe: excess sodium ponding	Severe: excess sodium ponding	Severe: excess sodium ponding	Severe: ponding	Severe: excess sodium ponding
COLVIN-----	Severe: excess salt wetness	Severe: excess salt wetness	Severe: excess salt wetness	Severe: wetness	Severe: excess salt wetness
STIRUM-----	Severe: excess sodium ponding	Severe: excess sodium ponding	Severe: excess sodium ponding	Severe: ponding	Severe: excess sodium ponding
OJATA-----	Severe: excess salt wetness	Severe: excess salt wetness	Severe: excess salt wetness	Severe: wetness	Severe: excess salt wetness
COLVIN-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
BEARDEN-----	Moderate: wetness	Moderate: percs slowly wetness	Moderate: wetness	Moderate: wetness	Moderate: wetness
988: HEIMDAL-----	Slight	Slight	Moderate: slope	Slight	Slight
EMRICK-----	Slight	Slight	Moderate: slope	Slight	Slight
ESMOND-----	Slight	Slight	Moderate: slope	Slight	Slight
COE-----	Slight	Slight	Moderate: slope	Slight	Severe: droughty
FRAM-----	Moderate: wetness	Moderate: wetness	Moderate: wetness	Slight	Slight
BINFORD-----	Slight	Slight	Moderate: slope	Slight	Moderate: droughty
CATHAY-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
WYARD-----	Severe: wetness	Moderate: wetness	Severe: wetness	Moderate: wetness	Moderate: wetness

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RECREATION DEVELOPMENT--Continued
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(The information in this report indicates the dominant soil condition but does not eliminate the need for onsite investigation)

Map symbol and soil name	Camp areas	Picnic areas	Playgrounds	Paths and trails	Golf fairways
998: HEIMDAL-----	Slight	Slight	Severe: slope	Slight	Slight
ESMOND-----	Slight	Slight	Severe: slope	Slight	Slight
EMRICK-----	Slight	Slight	Severe: slope	Slight	Slight
MADDOCK-----	Moderate: too sandy	Moderate: too sandy	Severe: slope	Moderate: too sandy	Moderate: droughty
BINFORD-----	Slight	Slight	Moderate: slope	Slight	Severe: droughty
COE-----	Severe: slope small stones	Severe: slope small stones	Severe: slope small stones	Moderate: slope	Severe: slope small stones droughty
FRAM-----	Moderate: wetness	Moderate: wetness	Moderate: wetness	Slight	Slight
VALLERS-----	Severe: wetness	Moderate: percs slowly wetness	Severe: wetness	Moderate: wetness	Moderate: wetness
1001: ESMOND-----	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope
HEIMDAL-----	Severe: slope	Severe: slope	Severe: slope	Moderate: slope	Severe: slope
EMRICK-----	Slight	Slight	Severe: slope	Slight	Slight
SIOUX-----	Severe: slope	Severe: slope	Severe: slope	Moderate: slope	Severe: droughty
MADDOCK-----	Severe: slope	Severe: slope	Severe: slope	Moderate: slope too sandy	Severe: slope
BINFORD-----	Moderate: slope	Moderate: slope	Severe: slope	Slight	Moderate: slope droughty
COE-----	Slight	Slight	Moderate: slope	Slight	Moderate: droughty
DICKEY-----	Severe: slope	Severe: slope	Severe: slope	Moderate: slope too sandy	Severe: slope
1015: KENSAL-----	Slight	Slight	Slight	Slight	Slight
WALUM-----	Slight	Slight	Slight	Slight	Moderate: droughty
OVERLY-----	Slight	Slight	Slight	Slight	Slight
BINFORD-----	Slight	Slight	Moderate: slope	Slight	Moderate: droughty

RECREATION DEVELOPMENT--Continued
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(The information in this report indicates the dominant soil condition but does not eliminate the need for onsite investigation)

Map symbol and soil name	Camp areas	Picnic areas	Playgrounds	Paths and trails	Golf fairways
GARDENA-----	Slight	Slight	Slight	Slight	Slight
COE-----	Slight	Slight	Moderate: slope	Slight	Severe: droughty
DIVIDE-----	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: wetness	Moderate: wetness
1062: LADELLE-----	Severe: flooding	Slight	Moderate: flooding	Slight	Moderate: flooding
WAHPETON-----	Severe: flooding	Moderate: too clayey	Moderate: flooding too clayey	Moderate: too clayey	Severe: too clayey
LAPRAIRIE-----	Severe: flooding	Slight	Moderate: flooding	Slight	Moderate: flooding
LUDDEN-----	Severe: flooding too clayey ponding	Severe: too clayey ponding	Severe: too clayey ponding	Severe: too clayey ponding	Severe: too clayey ponding
RAUVILLE-----	Severe: flooding wetness	Severe: wetness	Severe: flooding wetness	Severe: wetness	Severe: flooding wetness
VELVA-----	Severe: flooding	Slight	Moderate: flooding slope	Slight	Moderate: flooding
LAMOURE-----	Severe: flooding	Slight	Moderate: flooding	Slight	Moderate: flooding
1108: LARSON-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
CATHAY-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
FRAM-----	Moderate: wetness	Moderate: wetness	Moderate: wetness	Slight	Slight
EMRICK-----	Slight	Slight	Slight	Slight	Slight
TONKA-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
URANDA-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
FRAM-----	Severe: excess salt	Severe: excess salt	Severe: excess salt	Slight	Severe: excess salt
ESMOND-----	Slight	Slight	Moderate: slope	Slight	Slight
1188: LUDDEN-----	Severe: flooding too clayey ponding	Severe: too clayey ponding	Severe: too clayey ponding	Severe: too clayey ponding	Severe: too clayey ponding

RECREATION DEVELOPMENT--Continued
 Griggs County, North Dakota

(The information in this report indicates the dominant soil condition but does not eliminate the need for onsite investigation)

Map symbol and soil name	Camp areas	Picnic areas	Playgrounds	Paths and trails	Golf fairways
LUDDEN-----	Severe: flooding too clayey wetness	Severe: too clayey wetness	Severe: too clayey wetness	Severe: too clayey wetness	Severe: too clayey wetness
LADELLE-----	Severe: flooding	Slight	Moderate: flooding	Slight	Moderate: flooding
RAUVILLE-----	Severe: flooding wetness	Severe: wetness	Severe: flooding wetness	Severe: wetness	Severe: flooding wetness
LAMOURE-----	Severe: flooding	Slight	Moderate: flooding	Slight	Moderate: flooding
1189: LUDDEN-----	Severe: flooding too clayey wetness	Severe: too clayey wetness	Severe: too clayey wetness	Severe: too clayey wetness	Severe: too clayey wetness
LUDDEN-----	Severe: flooding too clayey ponding	Severe: too clayey ponding	Severe: too clayey ponding	Severe: too clayey ponding	Severe: too clayey ponding
RYAN-----	Severe: flooding percs slowly ponding	Severe: excess sodium too clayey ponding	Severe: percs slowly too clayey ponding	Severe: too clayey ponding	Severe: excess sodium too clayey ponding
LADELLE-----	Severe: flooding	Slight	Moderate: flooding	Slight	Moderate: flooding
LAMOURE-----	Severe: flooding	Slight	Moderate: flooding	Slight	Moderate: flooding
RAUVILLE-----	Severe: flooding wetness	Severe: wetness	Severe: flooding wetness	Severe: wetness	Severe: flooding wetness
1221: MADDOCK-----	Moderate: too sandy	Moderate: too sandy	Moderate: slope too sandy	Moderate: too sandy	Moderate: droughty
HECLA-----	Moderate: too sandy	Moderate: too sandy	Moderate: slope too sandy	Moderate: too sandy	Moderate: droughty
SERDEN-----	Moderate: too sandy	Moderate: too sandy	Moderate: slope too sandy	Moderate: too sandy	Moderate: droughty
MADDOCK-----	Slight	Slight	Moderate: slope	Slight	Moderate: droughty
TOWNER-----	Moderate: too sandy	Moderate: too sandy	Moderate: slope too sandy	Moderate: too sandy	Moderate: droughty
COE-----	Slight	Slight	Moderate: slope	Slight	Severe: droughty
DICKEY-----	Moderate: too sandy	Moderate: too sandy	Moderate: slope too sandy	Moderate: too sandy	Moderate: droughty

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Map symbol and soil name	Camp areas	Picnic areas	Playgrounds	Paths and trails	Golf fairways
ESMOND-----	Slight	Slight	Moderate: slope	Slight	Slight
1267: MARYSLAND-----	Severe: wetness	Severe: wetness	Severe: wetness	Severe: wetness	Severe: wetness
MARYSLAND-----	Severe: excess salt wetness	Severe: excess salt wetness	Severe: excess salt wetness	Severe: wetness	Severe: excess salt wetness
COLVIN-----	Severe: wetness	Severe: wetness	Severe: wetness	Severe: wetness	Severe: wetness
DIVIDE-----	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: wetness	Moderate: wetness
VALLERS-----	Severe: wetness	Moderate: percs slowly wetness	Severe: wetness	Moderate: wetness	Moderate: wetness
WYRENE-----	Slight	Slight	Moderate: small stones	Slight	Moderate: droughty
1268: MARYSLAND-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
COLVIN-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
MARYSLAND-----	Severe: wetness	Severe: wetness	Severe: wetness	Severe: wetness	Severe: wetness
LAMOURE-----	Severe: flooding	Slight	Moderate: flooding	Slight	Moderate: flooding
SOUTHAM-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
DIVIDE-----	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: wetness	Moderate: wetness
TIFFANY-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
1427: PARNELL-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
VALLERS-----	Severe: wetness	Moderate: percs slowly wetness	Severe: wetness	Moderate: wetness	Moderate: wetness
GRANO-----	Severe: flooding too clayey ponding	Severe: too clayey ponding	Severe: too clayey ponding	Severe: too clayey ponding	Severe: too clayey ponding
COLVIN-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
HAMERLY-----	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: wetness	Moderate: wetness

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Map symbol and soil name	Camp areas	Picnic areas	Playgrounds	Paths and trails	Golf fairways
TONKA-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
SOUTHAM-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
1454: WYNDMERE-----	Moderate: wetness	Moderate: wetness	Moderate: wetness	Slight	Slight
WYRENE-----	Moderate: wetness	Moderate: wetness	Moderate: small stones wetness	Moderate: wetness	Moderate: wetness droughty
DIVIDE-----	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: wetness	Moderate: wetness
TIFFANY-----	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: wetness	Moderate: wetness
EMBDEN-----	Slight	Slight	Slight	Slight	Slight
HAMAR-----	Severe: wetness	Moderate: wetness	Severe: wetness	Moderate: wetness	Moderate: wetness droughty
ARVESON-----	Severe: wetness	Severe: wetness	Severe: wetness	Severe: wetness	Severe: wetness
1466: PITS, SAND AND GRAVEL-----	Severe: slope small stones	Severe: slope too sandy	Severe: slope small stones	Severe: slope too sandy	Severe: slope small stones droughty
SIOUX-----	Slight	Slight	Moderate: slope small stones	Slight	Severe: droughty
ARVILLA-----	Slight	Slight	Moderate: slope	Slight	Moderate: droughty
WATER-----	---	---	---	---	---
1710: SOUTHAM-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
PARNELL-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
VALLERS-----	Severe: wetness	Moderate: percs slowly wetness	Severe: wetness	Moderate: wetness	Moderate: wetness
COLVIN-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
WATER-----	---	---	---	---	---
COLVIN-----	Severe: excess salt wetness	Severe: excess salt wetness	Severe: excess salt wetness	Severe: wetness	Severe: excess salt wetness

RECREATION DEVELOPMENT--Continued
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(The information in this report indicates the dominant soil condition but does not eliminate the need for onsite investigation)

Map symbol and soil name	Camp areas	Picnic areas	Playgrounds	Paths and trails	Golf fairways
1762: SVEA-----	Slight	Slight	Moderate: small stones	Slight	Slight
BARNES-----	Slight	Slight	Moderate: small stones	Slight	Slight
HAMERLY-----	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: wetness	Moderate: wetness
TONKA-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
WYARD-----	Severe: wetness	Moderate: wetness	Severe: wetness	Moderate: wetness	Moderate: wetness
CRESBARD-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
VANG-----	Slight	Slight	Moderate: slope	Slight	Slight
1765: SVEA-----	Slight	Slight	Moderate: slope small stones	Slight	Slight
BUSE-----	Slight	Slight	Moderate: slope small stones	Slight	Slight
BARNES-----	Slight	Slight	Moderate: slope small stones	Slight	Slight
HAMERLY-----	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: wetness	Moderate: wetness
TONKA-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
BRANTFORD-----	Slight	Slight	Moderate: small stones	Slight	Moderate: droughty
PARNELL-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
SWENODA-----	Slight	Slight	Moderate: slope	Slight	Slight
1766: BUSE-----	Slight	Slight	Severe: slope	Slight	Slight
SVEA-----	Slight	Slight	Severe: slope	Slight	Slight
BARNES-----	Slight	Slight	Severe: slope	Slight	Slight
HAMERLY-----	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: wetness	Moderate: wetness

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Map symbol and soil name	Camp areas	Picnic areas	Playgrounds	Paths and trails	Golf fairways
TONKA-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
BRANTFORD-----	Slight	Slight	Severe: slope	Slight	Moderate: droughty
PARNELL-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
TOWNER-----	Moderate: too sandy	Moderate: too sandy	Severe: slope	Moderate: too sandy	Moderate: droughty
1769: CRESBARD-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
SVEA-----	Slight	Slight	Moderate: small stones	Slight	Slight
BARNES-----	Slight	Slight	Moderate: small stones	Slight	Slight
CAVOUR-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
HAMERLY-----	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: wetness	Moderate: wetness
BUSE-----	Slight	Slight	Moderate: slope small stones	Slight	Slight
FERNEY-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
TONKA-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
1781: SWENODA-----	Slight	Slight	Slight	Slight	Slight
LANONA-----	Slight	Slight	Slight	Slight	Slight
SVEA-----	Slight	Slight	Moderate: small stones	Slight	Slight
TOWNER-----	Slight	Slight	Moderate: slope	Slight	Moderate: droughty
FRAM-----	Moderate: wetness	Moderate: wetness	Moderate: wetness	Slight	Slight
TIFFANY-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
BUSE-----	Slight	Slight	Moderate: slope small stones	Slight	Slight
1843: TOWNER-----	Moderate: too sandy	Moderate: too sandy	Moderate: slope too sandy	Moderate: too sandy	Moderate: droughty

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Map symbol and soil name	Camp areas	Picnic areas	Playgrounds	Paths and trails	Golf fairways
MADDOCK-----	Moderate: too sandy	Moderate: too sandy	Moderate: slope too sandy	Moderate: too sandy	Moderate: droughty
SWENODA-----	Slight	Slight	Moderate: slope	Slight	Slight
TIFFANY-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
BARNES-----	Slight	Slight	Moderate: slope small stones	Slight	Slight
HAMAR-----	Severe: wetness	Moderate: wetness	Severe: wetness	Moderate: wetness	Moderate: wetness droughty
GRIMSTAD-----	Slight	Slight	Slight	Slight	Slight
1883: PARNELL-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
VALLERS-----	Severe: wetness	Moderate: percs slowly wetness	Severe: wetness	Moderate: wetness	Moderate: wetness
HAMERLY-----	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: wetness	Moderate: wetness
VALLERS-----	Severe: excess salt wetness	Severe: excess salt wetness	Severe: excess salt wetness	Severe: wetness	Severe: excess salt wetness
MARYSLAND-----	Severe: wetness	Severe: wetness	Severe: wetness	Severe: wetness	Severe: wetness
SOUTHAM-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
PERELLA-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
TONKA-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
1886: HAMERLY-----	Severe: excess salt	Severe: excess salt	Severe: excess salt	Moderate: wetness	Severe: excess salt
VALLERS-----	Severe: excess salt wetness	Severe: excess salt wetness	Severe: excess salt wetness	Severe: wetness	Severe: excess salt wetness
TONKA-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
PARNELL-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
WYARD-----	Severe: wetness	Moderate: wetness	Severe: wetness	Moderate: wetness	Moderate: wetness
CAVOUR-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium

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Map symbol and soil name	Camp areas	Picnic areas	Playgrounds	Paths and trails	Golf fairways
FERNEY-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
1970: WALUM-----	Slight	Slight	Slight	Slight	Moderate: droughty
WYRENE-----	Moderate: wetness	Moderate: wetness	Moderate: small stones wetness	Moderate: wetness	Moderate: wetness droughty
EMBDEN-----	Slight	Slight	Slight	Slight	Slight
COE-----	Slight	Slight	Moderate: slope	Slight	Severe: droughty
DIVIDE-----	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: wetness	Moderate: wetness
FRAM-----	Moderate: wetness	Moderate: wetness	Moderate: wetness	Slight	Slight
VALLERS-----	Severe: wetness	Moderate: percs slowly wetness	Severe: wetness	Moderate: wetness	Moderate: wetness
1978: WATER-----	---	---	---	---	---
COLVIN-----	Severe: wetness	Severe: wetness	Severe: wetness	Severe: wetness	Severe: wetness
SOUTHAM-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
2118: FRAM-----	Moderate: wetness	Moderate: wetness	Moderate: wetness	Slight	Slight
TONKA-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
WYARD-----	Severe: wetness	Moderate: wetness	Severe: wetness	Moderate: wetness	Moderate: wetness
HEIMDAL-----	Slight	Slight	Slight	Slight	Slight
VALLERS-----	Severe: wetness	Moderate: percs slowly wetness	Severe: wetness	Moderate: wetness	Moderate: wetness
GLYNDON-----	Slight	Slight	Slight	Slight	Slight
PARNELL-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
WYNDMERE-----	Moderate: wetness	Moderate: wetness	Moderate: wetness	Slight	Slight
2121: FERNEY-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
HAMERLY-----	Severe: excess salt	Severe: excess salt	Severe: excess salt	Moderate: wetness	Severe: excess salt

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Map symbol and soil name	Camp areas	Picnic areas	Playgrounds	Paths and trails	Golf fairways
CAVOUR-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
MANFRED-----	Severe: excess sodium ponding	Severe: excess sodium ponding	Severe: excess sodium ponding	Severe: ponding	Severe: excess sodium ponding
WYARD-----	Severe: wetness	Moderate: wetness	Severe: wetness	Moderate: wetness	Moderate: wetness
CRESBARD-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
MARYSLAND-----	Severe: excess salt wetness	Severe: excess salt wetness	Severe: excess salt wetness	Severe: wetness	Severe: excess salt wetness
2151: BINFORD-----	Slight	Slight	Moderate: slope	Slight	Moderate: droughty
COE-----	Slight	Slight	Moderate: slope	Slight	Severe: droughty
BRANTFORD-----	Slight	Slight	Moderate: small stones	Slight	Moderate: droughty
VANG-----	Slight	Slight	Moderate: slope	Slight	Slight
DIVIDE-----	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: wetness	Moderate: wetness
KENSAL-----	Slight	Slight	Slight	Slight	Slight
MARYSLAND-----	Severe: wetness	Severe: wetness	Severe: wetness	Severe: wetness	Severe: wetness
WALUM-----	Slight	Slight	Slight	Slight	Moderate: droughty
2152: COE-----	Severe: slope small stones	Severe: slope small stones	Severe: slope small stones	Moderate: slope	Severe: slope small stones droughty
BINFORD-----	Moderate: slope	Moderate: slope	Severe: slope	Slight	Moderate: slope droughty
VANG-----	Slight	Slight	Severe: slope	Slight	Slight
HEIMDAL-----	Severe: slope	Severe: slope	Severe: slope	Moderate: slope	Severe: slope
ESMOND-----	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope
BRANTFORD-----	Slight	Slight	Severe: slope	Slight	Moderate: droughty
DIVIDE-----	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: wetness	Moderate: wetness

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Map symbol and soil name	Camp areas	Picnic areas	Playgrounds	Paths and trails	Golf fairways
FRAM-----	Moderate: wetness	Moderate: wetness	Moderate: wetness	Slight	Slight
2153: EDGELEY-----	Severe: slope	Severe: slope	Severe: slope	Moderate: slope	Severe: slope
KLOTEN-----	Severe: area reclaim slope thin layer	Severe: area reclaim slope thin layer	Severe: area reclaim slope thin layer	Moderate: slope	Severe: area reclaim slope thin layer
ESMOND-----	Severe: slope	Severe: slope	Severe: slope	Moderate: slope	Severe: slope
WALSH-----	---	---	---	---	---
COE-----	Severe: slope small stones	Severe: slope small stones	Severe: slope small stones	Moderate: slope	Severe: slope small stones droughty
EGELAND-----	Slight	Slight	Severe: slope	Slight	Slight
LAMOURE-----	Severe: flooding	Slight	Moderate: flooding	Slight	Moderate: flooding
MEKINOCK-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
NUTLEY-----	Severe: slope	Severe: slope	Severe: slope	Moderate: slope too clayey	Severe: slope too clayey
2156: LAMOURE-----	Severe: flooding wetness	Severe: wetness	Severe: flooding wetness	Severe: wetness	Severe: flooding wetness
RAUVILLE-----	Severe: flooding wetness	Severe: wetness	Severe: flooding wetness	Severe: wetness	Severe: flooding wetness
MARYSLAND-----	Severe: wetness	Severe: wetness	Severe: wetness	Severe: wetness	Severe: wetness
VELVA-----	Severe: flooding	Slight	Moderate: flooding slope	Slight	Moderate: flooding
DIVIDE-----	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: wetness	Moderate: wetness
FAIRDALE-----	Severe: flooding	Slight	Moderate: slope	Slight	Moderate: flooding
HARRIET-----	Severe: flooding percs slowly wetness	Severe: excess sodium percs slowly wetness	Severe: percs slowly wetness	Severe: wetness	Severe: excess sodium wetness
VALLERS-----	Severe: wetness	Moderate: percs slowly wetness	Severe: wetness	Moderate: wetness	Moderate: wetness

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RECREATION DEVELOPMENT--Continued
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(The information in this report indicates the dominant soil condition but does not eliminate the need for onsite investigation)

Map symbol and soil name	Camp areas	Picnic areas	Playgrounds	Paths and trails	Golf fairways
2157: MADDOK-----	Moderate: slope too sandy	Moderate: slope too sandy	Severe: slope	Moderate: too sandy	Moderate: slope droughty
ESMOND-----	Moderate: slope	Moderate: slope	Severe: slope	Slight	Moderate: slope
EMBDEN-----	Slight	Slight	Severe: slope	Slight	Slight
SERDEN-----	Moderate: slope too sandy	Moderate: slope too sandy	Severe: slope	Moderate: too sandy	Moderate: slope droughty
HEIMDAL-----	Moderate: slope	Moderate: slope	Severe: slope	Slight	Moderate: slope
HECLA-----	Moderate: too sandy	Moderate: too sandy	Moderate: slope too sandy	Moderate: too sandy	Moderate: droughty
BINFORD-----	Moderate: slope	Moderate: slope	Severe: slope	Slight	Moderate: slope droughty
COE-----	Severe: slope small stones	Severe: slope small stones	Severe: slope small stones	Moderate: slope	Severe: slope small stones droughty
ULEN-----	Slight	Slight	Slight	Slight	Moderate: droughty
2158: VELVA-----	Severe: flooding	Slight	Moderate: flooding slope	Slight	Moderate: flooding
BANKS-----	Severe: flooding	Slight	Moderate: flooding slope	Slight	Moderate: flooding droughty
RAUVILLE-----	Slight	Slight	Slight	Slight	Moderate: droughty
LAMOURE-----	Severe: flooding	Slight	Moderate: flooding	Slight	Moderate: flooding
LADELLE-----	Severe: flooding	Slight	Moderate: flooding	Slight	Moderate: flooding
TIFFANY-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
WATER-----	---	---	---	---	---
2159: WALSH-----	Slight	Slight	Moderate: slope small stones	Slight	Slight
BARNES-----	Slight	Slight	Moderate: slope small stones	Slight	Slight

RECREATION DEVELOPMENT--Continued
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(The information in this report indicates the dominant soil condition but does not eliminate the need for onsite investigation)

Map symbol and soil name	Camp areas	Picnic areas	Playgrounds	Paths and trails	Golf fairways
SINAI-----	Moderate: percs slowly	Moderate: percs slowly	Moderate: percs slowly slope	Slight	Slight
NUTLEY-----	Moderate: too clayey	Moderate: too clayey	Moderate: slope too clayey	Moderate: too clayey	Severe: too clayey
BINFORD-----	Slight	Slight	Moderate: slope	Slight	Moderate: droughty
EDGELEY-----	Slight	Slight	Moderate: slope depth to rock	Slight	Moderate: depth to rock
KENSAL-----	Slight	Slight	Slight	Slight	Slight
2196: COLVIN-----	Severe: excess salt wetness	Severe: excess salt wetness	Severe: excess salt wetness	Severe: wetness	Severe: excess salt wetness
BEARDEN-----	Severe: excess salt	Severe: excess salt	Severe: excess salt	Moderate: wetness	Severe: excess salt
BEARDEN-----	Moderate: wetness	Moderate: percs slowly wetness	Moderate: wetness	Moderate: wetness	Moderate: wetness
COLVIN-----	Severe: wetness	Severe: wetness	Severe: wetness	Severe: wetness	Severe: wetness
EXLINE-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Moderate: wetness	Severe: excess sodium
HARRIET-----	Severe: flooding percs slowly wetness	Severe: excess sodium percs slowly wetness	Severe: percs slowly wetness	Severe: wetness	Severe: excess sodium wetness
COLVIN-----	Severe: excess salt wetness	Severe: excess salt wetness	Severe: excess salt wetness	Severe: wetness	Severe: excess salt wetness
PERELLA-----	Severe: flooding wetness	Severe: wetness	Severe: flooding wetness	Severe: wetness	Severe: flooding wetness
2197: EDGELEY-----	Slight	Slight	Severe: slope	Slight	Moderate: depth to rock
KLOTEN-----	Severe: area reclaim thin layer	Severe: area reclaim thin layer	Severe: area reclaim slope thin layer	Slight	Severe: area reclaim thin layer
HEIMDAL-----	Slight	Slight	Severe: slope	Slight	Slight
NUTLEY-----	Moderate: too clayey	Moderate: too clayey	Severe: slope	Moderate: too clayey	Severe: too clayey
WALSH-----	Slight	Slight	Severe: slope	Slight	Slight

RECREATION DEVELOPMENT--Continued
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(The information in this report indicates the dominant soil condition but does not eliminate the need for onsite investigation)

Map symbol and soil name	Camp areas	Picnic areas	Playgrounds	Paths and trails	Golf fairways
CAVOUR-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
EMRICK-----	Slight	Slight	Severe: slope	Slight	Slight
DARNEN-----	Slight	Slight	Moderate: slope	Slight	Slight
2198: HAMAR-----	Severe: wetness	Moderate: wetness	Severe: wetness	Moderate: wetness	Moderate: wetness droughty
HECLA-----	Moderate: too sandy	Moderate: too sandy	Moderate: too sandy	Moderate: too sandy	Moderate: droughty
ULEN-----	Slight	Slight	Slight	Slight	Moderate: droughty
ARVESON-----	Severe: wetness	Severe: wetness	Severe: wetness	Severe: wetness	Severe: wetness
TOWNER-----	Slight	Slight	Moderate: slope	Slight	Moderate: droughty
WYNDMERE-----	Moderate: wetness	Moderate: wetness	Moderate: wetness	Moderate: wetness	Moderate: wetness droughty
FOSSUM-----	Severe: wetness	Severe: wetness	Severe: wetness	Severe: wetness	Severe: wetness
LETCHER-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
2199: HAMERLY-----	Moderate: percs slowly wetness	Moderate: percs slowly wetness	Moderate: large stones wetness	Slight	Moderate: large stones
BARNES-----	Slight	Slight	Severe: large stones	Slight	Moderate: large stones
VALLERS-----	Severe: wetness	Moderate: percs slowly wetness	Severe: wetness	Moderate: wetness	Moderate: wetness
EMRICK-----	Slight	Slight	Slight	Slight	Slight
TONKA-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
PARNELL-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
CRESBARD-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
HAMERLY-----	Severe: excess salt	Severe: excess salt	Severe: excess salt	Moderate: wetness	Severe: excess salt
CAVOUR-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium

RECREATION DEVELOPMENT--Continued
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(The information in this report indicates the dominant soil condition but does not eliminate the need for onsite investigation)

Map symbol and soil name	Camp areas	Picnic areas	Playgrounds	Paths and trails	Golf fairways
2200: LETCHER-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
SWENODA-----	Slight	Slight	Slight	Slight	Slight
LANONA-----	Slight	Slight	Slight	Slight	Slight
CATHAY-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
LEMERT-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
STIRUM-----	Severe: excess sodium ponding	Severe: excess sodium ponding	Severe: excess sodium ponding	Severe: ponding	Severe: excess sodium ponding
WYNDMERE-----	Moderate: wetness	Moderate: wetness	Moderate: wetness	Slight	Slight
TOWNER-----	Slight	Slight	Moderate: slope	Slight	Moderate: droughty
2201: STIRUM-----	Severe: excess sodium ponding	Severe: excess sodium ponding	Severe: excess sodium ponding	Severe: ponding	Severe: excess sodium ponding
ARVESON-----	Severe: excess salt wetness	Severe: excess salt wetness	Severe: excess salt wetness	Severe: wetness	Severe: excess salt wetness
MARYSLAND-----	---	---	---	---	---
HAMAR-----	Severe: wetness	Moderate: wetness	Severe: wetness	Moderate: wetness	Moderate: wetness droughty
MANFRED-----	Severe: excess sodium ponding	Severe: excess sodium ponding	Severe: excess sodium ponding	Severe: ponding	Severe: excess sodium ponding
GILBY-----	Severe: excess salt wetness	Severe: excess salt	Severe: excess salt wetness	Moderate: wetness	Severe: excess salt
LETCHER-----	Severe: excess sodium	Severe: excess sodium	Severe: excess sodium	Slight	Severe: excess sodium
MARYSLAND-----	Severe: wetness	Severe: wetness	Severe: wetness	Severe: wetness	Severe: wetness
2202: SWENODA-----	Slight	Slight	Moderate: slope	Slight	Slight
BARNES-----	Slight	Slight	Moderate: slope small stones	Slight	Slight
GARDENA-----	Slight	Slight	Moderate: slope	Slight	Slight
BUSE-----	Slight	Slight	Moderate: slope small stones	Slight	Slight

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Map symbol and soil name	Camp areas	Picnic areas	Playgrounds	Paths and trails	Golf fairways
BINFORD-----	Slight	Slight	Moderate: slope	Slight	Moderate: droughty
TOWNER-----	Moderate: too sandy	Moderate: too sandy	Moderate: slope too sandy	Moderate: too sandy	Moderate: droughty
MADDOCK-----	Moderate: too sandy	Moderate: too sandy	Moderate: slope too sandy	Moderate: too sandy	Moderate: droughty
TONKA-----	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding	Severe: ponding
2203: SWENODA-----	Slight	Slight	Severe: slope	Slight	Slight
BARNES-----	Slight	Slight	Severe: slope	Slight	Slight
BUSE-----	Slight	Slight	Severe: slope	Slight	Slight
MADDOCK-----	Moderate: too sandy	Moderate: too sandy	Severe: slope	Moderate: too sandy	Moderate: droughty
BINFORD-----	Moderate: slope	Moderate: slope	Severe: slope	Slight	Moderate: slope droughty
COE-----	Severe: slope small stones	Severe: slope small stones	Severe: slope small stones	Moderate: slope	Severe: slope small stones droughty
TOWNER-----	Slight	Slight	Moderate: slope	Slight	Moderate: droughty
VALLERS-----	Severe: wetness	Moderate: percs slowly wetness	Severe: wetness	Moderate: wetness	Moderate: wetness
2204: WALSH-----	Slight	Slight	Severe: slope	Slight	Slight
SINAI-----	Moderate: percs slowly	Moderate: percs slowly	Moderate: percs slowly slope	Slight	Slight
BARNES-----	Slight	Slight	Severe: slope	Slight	Slight
NUTLEY-----	Moderate: too clayey	Moderate: too clayey	Severe: slope	Moderate: too clayey	Severe: too clayey
EDGELEY-----	Slight	Slight	Severe: slope	Slight	Moderate: depth to rock
WAHPETON-----	Severe: flooding	Moderate: too clayey	Severe: slope	Moderate: too clayey	Severe: too clayey
VANG-----	Slight	Slight	Severe: slope	Slight	Slight

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Map symbol and soil name	Camp areas	Picnic areas	Playgrounds	Paths and trails	Golf fairways
2205: ZELL-----	Severe: slope	Severe: slope	Severe: slope	Moderate: slope	Severe: slope
ECKMAN-----	Moderate: slope	Moderate: slope	Severe: slope	Slight	Moderate: slope
GARDENA-----	Slight	Slight	Severe: slope	Slight	Slight
EMRICK-----	Slight	Slight	Severe: slope	Slight	Slight
MADDOCK-----	Severe: slope	Severe: slope	Severe: slope	Moderate: slope too sandy	Severe: slope
GREAT BEND----	Slight	Slight	Moderate: slope	Slight	Slight
COE-----	Severe: slope small stones	Severe: slope small stones	Severe: slope small stones	Moderate: slope	Severe: slope small stones droughty
ESMOND-----	Severe: slope	Severe: slope	Severe: slope	Severe: slope	Severe: slope

